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CHICAGO  
PORTLAND  
CEMENT  
COMPANY

CHICAGO PORTLAND  
== CEMENT CO. ==

513 STOCK EXCHANGE BUILDING, CHICAGO

MANUFACTURERS OF

*"CHICAGO AA"  
PORTLAND  
CEMENT*

GARDEN CITY SAND CO.

— SOLE DISTRIBUTERS —

SECURITY BUILDING :: :: CHICAGO

Built  
by  
Chicago  
Capital.

LIBRARY of  
' ' THE ' '  
FRANKLIN  
INSTITUTE



Operated  
by  
Chicago  
Brains

WORKS OF THE CHICAGO PORTLAND CEMENT CO.  
AT OGLESBY, ILLINOIS (near La Salle).

From a photograph.

## CHICAGO PORTLAND CEMENT CO.

*Manufacture a  
strictly high-grade  
Portland Cement  
and one grade only.*

### HISTORY

The present enterprise is the outgrowth of a factory established at Hawthorne just outside of Chicago some years ago. At that plant there was produced from limestone and clay a Portland Cement of superior quality, and which was promptly recognized and accepted as such by the architects, engineers and contractors of Chicago and vicinity and used in many important constructions. In February, 1898, the Hawthorne plant was completely destroyed by fire, just as extensive improvements, largely increasing its capacity, were about completed. This misfortune caused the management of the Company to make extensive investigation of various deposits of cement materials and factory sites in this and other states, and resulted in the abandonment of the Hawthorne site and the formation of a new company with increased capital to operate at a new site where better conditions were secured.

### CAPACITY OF FACTORY

Four hundred thousand barrels annually is the capacity of the machinery now in our mill. The buildings and power are designed for an increase of fifty per cent.



## MACHINERY EQUIPMENT

The machinery equipment is the best that can be obtained, including Gates' Rock Crushers, Krupp Ball and Tube Mills, Rotary Kilns from Vulcan Iron Works and Gates' Iron Works, Greene-Wheelock Cross Compound Condensing Engine of 1,000 horse power, B. & W. Water Tube Boilers, Electric Generators, Electric Motors, etc. Electric transmission of power is used largely for the machinery throughout the mill and in the quarry. Compressed air drives the quarry drills.

## LOCATION OF FACTORY

Near La Salle, Illinois.

Factory address: for mail, Oglesby, Ill.; for express, Oglesby, Ill. (American Express Co.); for freight, La Salle, Ill.

The Company controls about two thousand acres of land through which flows the enchanting Vermilion River. Scenery is superb and exquisite along this river, the bluffs rising one hundred feet and more above the river bed and exposing the cement rock strikingly.

## RAILROAD FACILITIES

Illinois Central Railroad by direct switch to factory.

Chicago, Burlington & Quincy Railroad by direct switch to factory.

Chicago, Rock Island & Pacific Railroad at La Salle.

I. I. & I. Railroad at Lostant.

C. & E. I. Railroad at Joliet.



C. & N.-W. Railroad at  
Spring Valley and Dixon.

A. T. & S. F. Railroad at  
Streator.



### MAIN OFFICE

Chicago, Illinois, No. 513  
Stock Exchange Building  
(108 La Salle Street). Telephone, Main No. 1248.

### OFFICERS OF THE COMPANY

NORMAN D. FRASER, President.

D. R. FRASER, Vice-President.

RALPH GATES, Secretary and Treasurer.

### CEMENT MATERIALS

Lime rock and shale clays are the raw materials used for making the "Chicago AA" Portland Cement. These lie very uniformly throughout the Company's properties. The lime rock is a horizontal deposit about twenty-two feet thick, and immediately below the rock lie the shale clays used, to a depth of about fourteen feet in two principal strata, separated by a thin horizontal seam of coal.

#### Analysis

	Limestone	Clay
Silica . . . . .	6.06	53.12
Alumina . . . . .		20.60
Iron Oxide } . . . . .	3.92	4.09
Lime . . . . .	49.46	4.02
Magnesia . . . . .	.91	2.24
Sulphuric Anhydride . . . . .	.10	
Ignition loss . . . . .	39.06	13.70

No more favorable materials for making a superior Portland Cement are to be found in America.

## PROCESS

The "Dry Process" is used in a manner distinctly "American," and by which the American factories are now producing Portland Cement in enormous quantities and of a quality that exceeds the European product in all respects.

From the quarry crusher house the rock and clay are taken by an aerial tramway into the mill building and directly to two revolving dryers. The dried material is stored in great storage bins, from which, as required, it is automatically drawn and delivered by elevator, conveyors and automatic feeders to Ball Mills. By elevator and conveyors the partially pulverized material then goes to an immense storage and equalizing bin from which it is drawn by automatic machinery and conveyed to the Raw Tube Mills, which reduce it to very fine powder that flows continuously by elevator and conveyors into the large feed bins above the kilns.

Rotary kilns receive this dry powder from mechanical feeders and produce the cement clinker by means of heat maintained day and night at a temperature of about 3,000 degrees Fahrenheit, using pulverized coal blown in by air-pressure fans.

Automatic machinery cools the clinker which is mechanically stored by conveying machinery. From the clinker storage bins conveyors take the cold clinker to Ball Mills, fed automatically, and the partially pulverized clinker is then elevated to a storage bin over the Cement Tube Mills which finally pulverize it to the required fineness for Portland Cement.

The finished cement is automatically conveyed by machinery to and distributed in the stock house where the bins have a capacity of 40,000 barrels.

Sacking and barreling machinery in the stock house insure uniform weight and perfect package.



## QUALITY

"The best that can be made" is our policy. "None shall be better" is our aim.

We believe that this has been fully attained and ask you to carefully read and consider the evidences of our record placed on the following pages of this catalogue.

## CHEMICAL AND PHYSICAL TESTS

Our Laboratory is thoroughly equipped for making analysis and physical tests, and is one of the most complete Cement Mill laboratories in the country. Our Laboratory is in charge of a competent chemist who makes frequent chemical tests daily on the raw cement material.

The finished cement is also tested daily for fineness, soundness, setting and tensile strength.

No cement is allowed to leave our works unless it meets all the requirements of a first-class cement.

## GUARANTEE

"Chicago AA" Portland Cement is guaranteed :

1. Uniform in color.
2. Sound and reliable, passing all reasonable tests, such as the hot test and cold water test.
3. Strength satisfactory and increasing steadily with age.
4. Fineness = 95% to pass 100-mesh United States standard sieve.

## PACKAGES

We will ship "Chicago AA" Portland Cement in cloth sacks, paper sacks or wood barrels as the purchaser may desire, and guarantee full standard weight.

T. Nicholson & Sons Co.  
General Contractors  
Suite 1310 Manhattan Building  
113 Dearborn Street  
Chicago

Chicago August 2d, 1900.

The Garden City Sand Co.,

Security Bldg. City.

Gentlemen:-

Replying to your inquiry regarding our experience with your "Chicago AA" Portland Cement.

After having the cement thoroughly tested by Messrs. Robt. W. Hunt & Co. we used it in the construction of W. H. Merritt & Co's. Grain Elevator at South Chicago, with the best of results.

The bearing piers of elevators are generally built of Joliet Limestone, but in this elevator we substituted concrete made of "A.A." Cement, upon examination we find the piers are standing well under a direct load of 400 Tons each.

We therefore can recommend your "A.A." Cement without hesitation.

Respectfully,

T. NICHOLSON & SONS CO.

PER *T. Nicholson*  
Secy. or Treas.

Read T. Nicholson & Sons Co.'s letter.

Remember we guarantee our Cement, treated equally fair with any other high-grade Portland Cement, will produce equally satisfactory results.

The peer of any brand.

THE MERRITT ELEVATOR  
is one of the largest and  
most substantial in  
the entire  
Calumet region.

650 barrels Chicago AA  
Cement used.

Our product has no superior.



For more detailed information on how to use Portland Cement than  
given on pages 62 and 63 send to Chicago Portland Cement Co.  
for "How to use Portland Cement."



H. H. KOHLSAAT & COMPANY'S BAKERY.

Chicago.

The most complete modern bakery in America. 700 barrels AA Chicago Portland  
Cement used in this building.

GILBERT H. SCRIBNER, JR.  
GENERAL CONTRACTOR  
ROOM 1002, NO. 135 ADAMS STREET  
TELEPHONE CHICAGO 2086  
CHICAGO.

January 23, 1901.

The Chicago Portland Cement Co.,  
Chicago, Ill.

Gentlemen:-

During the year 1900, I used about 5000 Bbls. of your  
Chicago A. A. Portland Cement, and it has given perfect satisfaction  
in the work.

None of this Cement was rejected by the Engineers and every  
car was inspected and tested.

The work that this Cement was used on consisted of Abut-  
ments, Culverts, Arches and Facing of disintegrated stone; and in all  
of this work it finished with a good color, and by working gave a  
smooth surface.

This was entirely Railroad work.

Yours very truly,

*G. H. Scribner Jr.*

ESTABLISHED 1870.

TELEPHONE 384 HERRISON

J. L. FULTON & CO.  
...Asphalt and Portland Cement Pavements...  
1118 MONADNOCK BUILDING.

Chicago *J. L. Fulton & Co.*

*Chicago Portland Cement Co  
108 La Salle St.*

*Gentlemen*

*We have used thousands of  
Bbls of your Portland Cement, and  
take great pleasure in recommending  
it for its uniformity of strength  
and its general reliability.*

*Yours Truly  
J. L. Fulton & Co*



DRAINAGE CANAL BRIDGE,  
Western Ave. Boulevard,  
Bennezette Williams, Contracting Engineer.

5,000  
barrels  
AA  
Chicago  
Cement  
used in  
I. C. R. R. work by  
Geo. Scribner Jr.  
in 1900



CULVERT,  
ILL. CENT. R. R.,  
near Ft. Dodge, Iowa

Built by  
Geo. Scribner Jr.

More than  
5,000 barrels of  
Chicago AA Cement  
used by  
J. L.  
Fulton  
& Co.  
in  
railroad  
work  
in 1900.



ABUTMENT, ILL. CENT. R. R., near Iowa Falls, Iowa.  
Built by Geo. Scribner Jr.



WILLIAM D. PRIGE.

CONTRACTOR.

3427 N. 56th AVENUE. CHICAGO

July 14th, 1900

Garden City Sand Co.,

Security Bldg.,

Chicago.

Gentlemen:

I have recently used several car loads of Chicago A A Cement in foundation work and the results as well as in tests, that I have made, have been eminently satisfactory. It has all the earmarks of a high grade Portland.

Sincerely yours,

*W. D. Price*

SOLE AGENTS

440 GRAND LANE  
FIRST FLOOR  
NEW YORK CITY  
GRAND CITY NEW YORK  
GRAND CITY NEW YORK

HOPPER & McNEIL CO.

BUILDING MATERIAL.

SOLE AGENTS  
440 GRAND LANE  
FIRST FLOOR  
NEW YORK CITY  
GRAND CITY NEW YORK  
GRAND CITY NEW YORK

*Garden City, N.Y.*

July 7/00.

Garden City Sand Co.

Chicago, Ills.

Gentlemen:-

We have sold the Chicago A.A. Portland Cement for two seasons and have found it all that could be desired. The Sidewalk Contractors have used it largely and it has given good satisfaction, and compares favorably with other brands of American Portland Cement. We consider it equal to any on the market.

Yours

*Hopper & McNeil Co*



MEDILL SCHOOL.  
Chicago.  
Chicago AA in floors. By Sennott Construction Co.

Guaranteed for heavy foundations and all important work.



WISCONSIN CENTRAL R. R. FREIGHT HOUSE,  
Chicago.  
2,500 barrels Chicago AA in foundations.

FRITZ FOLTZ.  
ARCHITECT.  
NO. 58 WABASH AVENUE.

Telephone M. 2217.

CHICAGO. June 18th, 1899.

The Chicago Portland Cement Co.

Gentlemen:-

In answer to your request for a statement of my experience with your "A. A." Chicago Portland Cement" I am pleased to say that, after using your material in several large buildings for concrete work in foundations, I have no hesitation in pronouncing it equal to the best Portland Cement I have ever used, and that I shall continue to use it in future wherever good cement work is required.

Yours truly,

*Fritz Foltz.*

Trusted Lumber,  
Marble, Brick,  
Granite and Cedar  
Dealers in  
Cedar Ash & Fir  
and Cedar Planks  
Office  
312 Chamber of Commerce Bldg.  
Mill and Dock  
Chicago, 602 South Paulina St.

*R. F. Conway*  
President

*J. J. McCarty*  
Secretary

*L. J. Smith*  
Treasurer

*R. F. Conway Company*  
*Steel Pavments*

*Chicago* February 5, 1901.

Chicago Portland Cement Co.,

513 Chicago Stock Exchange Bldg.,

City.

Gentlemen:-

Replying to your inquiry regarding our experience with your Chicago A. A. Portland Cement, would state, that we have used several thousand barrels in foundation work with the best of results and take pleasure in recommending it to anyone wanting a high grade Portland cement.

Respectfully,

R. F. Conway Company,,

*L. J. Smith*  
Treasurer.

Chicago  
AA Cement  
is uniform  
in color,  
absolutely  
sound  
and  
reliable.



MORRISON HOTEL,

Chicago.

Chicago AA Cement used in Mosaic floors and in  
wainscoting 100 bathrooms.



WELLS STREET,

Chicago.

Paved by R. F. Conway Company. Chicago AA Cement used.

Send for  
instructions  
how to  
use  
Portland  
Cement.

PAID BY THE  
FREIGHT HOUSES.  
ROUND HOUSES.  
COAL CRUTCHES.  
MACHINE SHOPS.  
WARE-HOUSES, Etc.

## GEO. B. SWIFT COMPANY,

INCORPORATED  
GENERAL CONTRACTORS.

SECURITY BUILDING, Madison Street and Fifth Avenue

CHAS. B. SWIFT, President  
WILLIAM B. SWIFT, Vice-President  
JAMES F. SWIFT, Secretary  
WILLIAM B. SWIFT, Treasurer

TELEPHONE, MAin 5813.

CHICAGO, Feb. 13th, 1901.

The Chicago Portland Cement Co.,  
Stock Exchange Building, City.

Gentlemen:-

In response to a verbal inquiry of your Mr. J.W. Woodruff, I would state that we used your Chicago "AA" Portland Cement in the construction of the foundations for the Illinois Central Passenger Station at Decatur, Illinois, and have used approximately three thousand barrels of the same brand in the machine shop and round house which we are now completing for the same company at Waterloo, Iowa. In both cases the results have been entirely satisfactory, and we are glad to recommend your Cement as a first-class article.

Yours respectfully,

GEO. B. SWIFT COMPANY.

*W.B. Swift*  
SECRETARY.

Geo. B. Swift Co.

Geo. B. Swift Company  
used, in 1900, 3,000 barrels  
of Chicago AA Cement  
in railroad work. :: :: ::

Chicago AA Cement excels in fine grinding.



AA Chicago  
Portland Cement  
used by the  
Illinois  
Central R. R.  
in its most  
important  
work  
including  
stations, bridges,  
culvert and  
masonry.



ILLINOIS CENTRAL RAILROAD PASSENGER STATION

Decatur, Ill.

Francis T. Bacon, Architect. David Sloan, Chief Engineer. Geo. B. Swift Company, General Contractors.



ESTABLISHED 1883  
INCORPORATED 1890

J. M. CLARK, President  
WED. F. CLARK, Vice-President & Cashier

# JONATHAN CLARK & SONS CO. CONTRACTORS FOR BUILDINGS.

TELEPHONE  
HARRISON 1886

Suite 69, 2 and 4 Sherman Street

Chicago, Jan. 17, 1901.

Chicago Portland Cement Co.,

Stock Exchange, City.

Gentlemen:--

We have used your cement the past season and it has proved entirely satisfactory. We mention the following buildings where your cement has been placed.

Chicago Newspaper Union, 127-129 S. Jefferson St.

Chicago American Building.

Four buildings for the Chicago Telephone Co.

Manufacturers Building, Randolph & Canal Sts.

Yours truly,

JONATHAN CLARK & SONS CO.

*W. F. Clark*

JOHN H. WAGNER  
ENGINEER AND ARCHITECT  
Room 51 and 52 Ruggles Bldg.  
TELEPHONE WAB 3417

*January 17, 1901*  
*Chicago Portland Cement Co.*  
*1205 State Exchange,*  
*Chicago,*  
*Jonathan Clark & Sons*  
*We used for some time*  
*past, considerable of your Cement and find*  
*it is very good and a first class article*  
*Yours truly*  
*John H. Wagner*



SPAN SIDEWALK.  
16 feet by 130 feet,  
also Building Foundations  
made with  
Chicago AA Cement.

Jonathan Clark & Sons Co.  
Building Contractors.

Stamsen & Blome.  
Sidewalk Contractors.

Patronize  
Home  
Industry.



Chicago  
AA  
Cement  
used.

CHICAGO COTTAGE ORGAN CO.'S FACTORY.

Chicago.

Ralph & Sumner Sollitt, Builders. John H. Wagner, Architect.

SAM. HALLS.  
Architect and Builder,  
Room 911, 218 LaSalle St.,  
Tel. Harrison 82.

*Chicago.* August 4th, 1899.

Chicago Portland Cement Co.,  
1205-108 LaSalle St., City.

Gentlemen:--

In giving you this testimonial, it gives me pleasure to have the opportunity to state some facts about your cement; having used it now for about two years in various ways, such as sidewalk work, foundation work, and curb street wall work.

I find it, for economy, color, durability and working, equal to any Foreign or Domestic cements that it has been my privilege to handle in the past eighteen years in Chicago.

Respectfully yours,



218 LA SALLE STREET

TELEPHONE MAIN 3256

G. F. Wilson & E. A. Marshall.  
ASSOCIATED ARCHITECTS  
CHICAGO

January 23rd, 1900

Chicago Portland Cement Co.,  
100 LaSalle St., City.

Gentlemen:--

With reference to your "A" "A" cement I will say, that we have used the same in the J. I. Murphy residence and in Gen. M. T. Molone's office building in Ottawa, Ill., and other buildings in our work and have found the same in all cases, satisfactory, and take pleasure in recommending it as one of the best of native samples.

Yours respectfully,

Dec. H. F. W.





CHICAGO RESIDENCES.  
Built by Sam. Halls.  
Sidewalks of AA Chicago Cement.

Send for instructions how to use Portland Cement.



RESIDENCE OF J. B. MURPHY.  
Chicago.  
AA Chicago Cement used.  
Wilson & Marshall, Architects. Sam. Halls, Builder.



**FALKENAU CONSTRUCTION CO.**

SUITE 3115, 1119 CHICAGO STOCK EXCHANGE BUILDING

110 LA SALLE STREET.

TELEPHONE MAIN 444

*Chicago*, Jan. 24th 1901.

Chicago Portland Cement Company,

Gentlemen,

With reference to the cement manufactured by your Company, we are pleased to state that we do not hesitate to endorse it, especially for sidewalks and for foundation concrete.

While it sets rapidly it retains and increases its toughness with time. This makes it especially desirable for sidewalk work. Having used over 3000 barrels we have been enabled to judge of its uniform quality.

Further more we have used this cement at the Western Electric Building and found it very satisfactory.

Trusting that you may have the success you deserve, we remain,

Yours truly,

FALKENAU CONSTRUCTION CO.

*V Falkenau* Pres't.*Samuel W. Treat*  
*Architect**Suite 1307 Fisher Building*  
*277 Dearborn Street*  
*Chicago*

January 10, 1901.

The Chicago Portland Cement Co.,  
Chicago Stock Exchange Building,  
Chicago, Illinois.

Gentlemen;

Having had an extended experience in the use of your product, both for masonry walls and for sidewalk construction, it enables me to judge of its qualities, and I can therefore say without hesitation that I have found no brand of goods more uniformly satisfactory than the "Chicago Portland Cement."

Yours truly,

*S. W. Treat*



FACTORY OF THE WESTERN ELECTRIC CO.,  
Chicago.

S. A. Treat, Architect. Falkenau Construction Co., Contractors.

Over 3,000 barrels Chicago AA Cement used in this great factory. Building foundations, machinery foundations, floors, sidewalks.

M. POTTS  
CHIEF ENGINEER

THE ILLINOIS  
TELEPHONE CONSTRUCTION COMPANY  
ENGINEERING DEPARTMENT  
754-756 BROOKLYN BUILDING

CHICAGO. March 28th, 1900.

Garden City Sand Co.,  
1203 Security Building,  
Chicago, Illinois.

Gentlemen:-

Regarding your inquiry to-day concerning the result obtained of "C.A.A." Portland Cement used by us in the construction of underground conduits for our system. I am pleased to state that up to the present time we have obtained very satisfactory results with its use and cheerfully recommend it as first-class Cement for such purposes. We have used about two thousand barrels and have found it good and uniform.

Trusting this will subserve your purpose,

Yours truly,

*M. Potts*  
Chief Engineer.

Asphalt  
Color Block  
Granite  
Brick  
Marble

*James A. Sackley*  
Successor to  
Sackley & Peterson  
**STREET PAVEMENTS**  
**EXCAVATING**

Dealer in  
Cedar Posts  
and  
Paving Blocks

2000 Lake Street  
Chicago, Ill.  
Telephone 3332

Office 201 Chamber of Commerce Bldg.  
Telephone Room 330

*Chicago* July 13th, 1900

The Garden City Sand Co.,  
1203 Security Bldg., City.

Gentlemen:

Having for the last two years used several thousand barrels of your Chicago A A Portland Cement, it affords me pleasure to state that the Concrete made with this Cement has given me the very best of satisfaction and I would have no hesitancy in using it in any kind of Cement work, so far as quality is concerned.

Yours truly

*James A. Sackley*

UNDERGROUND  
CONDUIT.  
Chicago.  
constructed entirely  
of concrete with  
Chicago AA Cement by  
The Illinois Telephone  
Construction Co.



Instructions how to use Portland Cement sent free on application.



WEST  
TWELFTH  
STREET,  
Chicago.  
Paved by  
Jas. A. Sackley  
in 1900.  
with  
Chicago AA  
Cement.

MEMORANDUM

WILHELM GRIESSER

ARCHITECTS AND ENGINEERS.

...ENGINEERING CO.

907 TO 911 SCHILLER BLDG.

Chicago, Jan. 3rd. 1908

TELEPHONE, MAIN 3167

Specialty: Designing and Constructing Breweries, Malting Plants, Distilleries, Power Plants and Factories in general.  
Wilhelm Griesser's New Cellar Construction, 20 per cent. saving of Iron or Steel.  
Patented and Builder of Grains Dryer America.  
Wilhelm Griesser's Steep Tank and Mashub Valve.

Chicago Portland Cement Co.,  
Chicago, Ill.

Gentlemen:-

In regard to your inquiry, we wish to say that we have used about 1700 bbls., of your "AA" Chicago Portland Cement in the construction of the new Stable for the Gottfried Brewing Co., and that same has given in strength as well as in color the best satisfaction. We have used this cement for the arches which varied in lengths up to 18'0", and also for the floor, and can recommend your cement for all concrete constructions.

Yours respectfully,  
Wm. Griesser, Eng. Co.,

per, *Rich Griesser*

ALBERT GRAFF & CO.,

Telephone Main 4469

177 La Salle Street.

PORTLAND CEMENT AND ASPHALT PAVING,

HIGH-GRADE CEMENT WALKS A SPECIALTY.

Chicago, Ill. July 6th, 1900

Garden City Sand Co.,

City.

Dear Sirs:

We have used a considerable amount of "Chicago A A" Portland Cement and find it satisfactory in every detail. It shows a stronger test than most Cements used and is also very beautiful in color.

Very respectfully yours,

*Albert Graff, Co*

No work too important.

No test too severe.



SCHWARZSCHILD &  
SULZBERGER  
BREWING CO.'S  
CHICAGO SUPPLY  
MARKET.

Ralph & Sumner Sollitt,  
Contractors.

Chicago AA Cement  
used.



GOTTFRIED  
BREWING CO.'S  
STABLE, Chicago.

Stamsen & Blome,  
Concrete Contractors.

Wilhelm Griesser  
Engineering Co.,  
Architects and Engineers.

1,700 barrels  
Chicago AA Cement  
used in concrete  
arch construction.

JOHN L. HOERBER  
BREWERY.

Wilhelm Griesser  
Engineering Co.,  
Architects and Engineers.

Stamsen & Blome,  
Concrete Contractors.

Chicago AA Cement used.



STONE, BRICK, A. EINFELDT  
AND KINDS OF  
MASONS' MATERIAL.  
OFFICE 124 1/2 Dear Street, CHICAGO, ILL.  
TELEPHONE 111.  
FREDERICK H. HARRIS, JR.

*Feb 16, 1901.* Jan. 16, 1901.

Chicago Portland Cement Co.,  
Chicago Stock Exchange Bldg. Chicago, Ill.

Gentlemen:

The Chicago A.A. Portland Cement has given me entire satisfaction during the past five years in which I have sold it at my yard. I have not only sold it but have had sidewalks built in front of my property. Am pleased to say that no manufacturer, dealer or contractor can show me better walks, and by this I mean in relation to color, strength and in every other particular that goes to make first class cement walks. In fact my satisfaction is such that I have no desire to change so long as the cement shall retain its present high standard.

Yours very truly,

*A. Einfeldt*

The Town of Cicero.

Office of  
Town Engineer

Barry B. Brown,  
Clerk

Bushnell Cook Co. Ill.

Dictated.

Austin, Ill., January 17th, 1898.

Chicago Portland Cement Co.,  
C I T Y.

Gentlemen:-

During the past year I have used considerable Chicago Portland Cement in the construction of combined curb and gutter and cement sidewalks, and am well satisfied with the results obtained. I prefer American Portland cements to the imported product and consider your cement will bear favorable comparison with any American Portland cements I have used. I have been especially pleased with its uniformity in quality and results show a uniform color.

Yours truly,

*Barry B. Brown*  
Town Engineer.

*Thos. J. Cicero*

See what  
Mr. Einfeldt says  
after selling  
"AA"  
five years.

Chapel



FOREST HOME CEMETERY.



Driveway  
through  
Cemetery.

Chicago AA Cement  
used exclusively  
in constructing  
the Chapel  
and in curb and  
gutters.

## KANKAKEE ARTIFICIAL STONE CO.,

BRICK PAVING..

+-----+  
Cement Walks, Curb and Gutter,  
Floors, Cisterns, Etc.  
+-----+

KANKAKEE, ILLINOIS. Nov. 23, 1900.

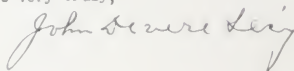
Chicago Portland Cement Co.,

Chicago, Illinois.

Dear Sirs :-

Yours of the 14th inst is at hand. Regarding the AA Portland cement I can say that it fills all the requirements of a first class cement. We have used it in four countries this season and every where it is giving the most satisfactory results. We have abundant faith in its durability and can cheerfully recommend it for any kind of work where good first class cement is needed.

Yours very truly,



Miles of curb and gutter and sidewalk testify to the good qualities  
of Chicago AA both for color and strength.

J. W. KELLY  
MANUFACTURED BY  
AMPHILAT. PATENT STONE MANUFACTURING CO.  
21 EAST FORT STREET

DURHAM, ILLINOIS. 11/7/00.

Chicago Portland Cement Co.,

Chicago Stock Exchange,

Chicago, Ill.

Gentlemen:-

Take pleasure in saying we used Chgo. A.A. Portland cement during seasons of 97-99-1900 in walks, curbs, steps and driveways and it has given satisfaction. Walks laid in 97 still show us a perfect surface under heavy traffic.

Yours truly,



STREET IN  
KANKAKEE, ILL.  
Sidewalks, Curb and  
Gutters of  
Chicago AA Cement.



KANKAKEE  
PUBLIC LIBRARY.

John Devere, Secretary  
Kankakee Artificial Stone Co.

Says:

"Stones weighing over five tons were repeatedly dropped on this walk and never damaged it a particle. Walk only four inches in thickness."

STEPS AND WALK  
in Savanna, Ill.

Built by one of the  
pioneers in the concrete  
business,  
J. W. Kelly, Dixon, Ill.  
Chicago AA Cement used.





**J. W. MITCHELL**  
**GENERAL PAVING CONTRACTOR**

CEMENT SIDEWALKS, CELLAR FLOORS, CURBS, GUTTERS, ETC.

—+— A SPECIALTY —+—

*Madison, Wis.*

July 6th, 1900.

The Garden City Sand Co.

Chicago, Ill.

Gentlemen :-

In reply to your request as to what I know of Chicago "A A" Portland Cement, I have used 400 bbls. so far this Season and find the Chicago "A A" equal to any Portland Cement. I know of for any work in my line. I have used it in sidewalks, curbings, curb and gutters, cellars and have put up a 15" wall 8'6" high 22' x 36' and have never had anything give better satisfaction, and do not hesitate in recommending the Chicago "A A" Portland Cement to any one wanting first class work.

Yours truly,

*J. W. Mitchell.*

404 Security Building, Chicago, Ill.

January 12th 1898.

Chicago Portland Cement Co.,

1205 Stock Exchange, Chicago.

Gentlemen:-

Replying to yours of recent date, will say that the work that was done with your "AA" cement in building the foundations of the bridge, last season, over the Des Plaines river in the Town of Main, Cook County, Ill., was satisfactory in every way, and is considered by the Cook County Board of Commissioners the best piece of work under their supervision.

I have found the cement to be of uniform grade and quality in this and other work under my supervision, and has shown in test the highest degree of fineness and quality shown in any Portland Cement.

Yours respectfully,

*N. T. Emerson*

# REPORT OF TESTS ON CHICAGO AA PORTLAND CEMENT

COLLEGE OF ENGINEERING,

IRVING S. BAKER,  
Professor of Civil Engineering.

UNIVERSITY OF ILLINOIS.

PHOTOGRAPH BY CHAMPAIGN PHOTOGRAPHY

Champaign, Ill. March 6, 1901.

Chicago Portland Cement Co.,  
Stock Exchange Building,  
Chicago, Illinois.

Gentlemen:

Below please find the results of my tests of the sample of Chicago AA cement received from you.

**WEIGHT.** The weight loose is 87 lbs. per cu. ft., or 108 lbs. per bushel. The weight is of no special value.

**SPECIFIC GRAVITY.** The specific gravity is 3.15. No special importance attaches to this test.

**ACTIVITY.** The time from mixing to initial set is 2 hours, 5 minutes, and to hard set 4 hours, 25 minutes. For a Portland cement this is very satisfactory.

**SOUNDNESS.** The cold pat test and also the hot water test shows the cement to be perfectly sound.

**FINESS.** The amount passing a No. 50 sieve is 99.6%, No. 100, 95.4%; No. 200, 79.8%. Finess measures the sand carrying capacity of a cement, i.e., its economic value. This cement is unusually high in this very important quality.

**TENSILE STRENGTH.** The tensile strength varies greatly with the details of the method of making the tests, particularly with the amount of water used, the pressure employed in filling the molds, and the character of the sand. Therefore, I have tested your cement by three methods of filling the molds, and with three kinds of mortar, as shown in the accompanying table. The results are in pounds per square inch. The table needs little or no explanation.

COLLEGE OF ENGINEERING.  
IRA O. BAKER,  
PROFESSOR OF CIVIL ENGINEERING.

UNIVERSITY OF ILLINOIS.

POSTOFFICE CHAMPAIGN, ILLINOIS.

Champaign, Ill.

The first line shows the strength when the mortar was pressed into the molds with the thumbs. The second line gives the results for briquettes put into the molds with the German standard hammer apparatus. The third line shows the strength when the briquette is molded with a pressure of 4000 pounds. In this country the usual method of molding is by hand.

The quality of the sand greatly influences the strength of the mortar, the variation from this cause alone sometimes being 200 to 300 per cent. The sands used in the table are the recognized standards, although building sands will often give higher strength, since the standard sands have grains of only one size and therefore have a large per cent of voids. The standard sands are used because they are definite in quality.

The table proves that the cement is among the strongest.

All the above tests show that the cement is among the very best.

Respectfully Submitted,

*Ira O. Baker*

M. Am. Soc. C. E.

Report of Tests by IRA O. BAKER, C. E., Professor of Civil Engineering, University of Illinois, author of "Treatise on Masonry Construction," Member of American Society of Civil Engineers, and Member of Western Society of Engineers, etc.

# TENSILE STRENGTH OF CHICAGO ~~AA~~ PORTLAND CEMENT

POUNDS PER SQUARE INCH

Method of	Neat Cement with 14 % of water at 70° F						1 Part Cement and 3 Parts German Standard Sand with 6½ % of water at 70° F						1 Part Cement and 3 Parts Standard Crushed Quartz with 6½ % of water at 70° F					
	24 hr.	7 da	30 da	3 mo	6 mo	1 yr.	24 hr.	7 da	30 da	3 mo	6 mo	1 yr.	24 hr.	7 da	30 da	3 mo	6 mo	1 yr.
Moulding																		
Hand	370	843	970				29	233	246				24	206	233			
Böhme' Hammer	538	904	1081				68	313	336				69	327	561			
Olsen Press -4000 lbs	334	630	892				27	132	156				45	180	238			

(CORRECT

*Ira O. Baker*

(See explanatory letter on preceding pages.)

## Test on Chicago AA at Minneapolis

## COPY OF THE RECORD OF CEMENT TESTS.

III. AGENCIES DEPARTMENT, MINNEAPOLIS.

051

Inspector

NOTE—This test commenced December 27th, 1900



CONCRETE CULVERT  
on Chicago & Eastern  
Illinois R. R.

W. S. Dawley,  
Chief Engineer.



BRIDGE  
over Desplaines River,  
Desplaines, Ill.

H. L. Emerson,  
Engineer.

CONCRETE CULVERT  
on Chicago & Eastern  
Illinois R. R.

W. S. Dawley,  
Chief Engineer.



Chicago AA Cement used in all of the above constructions.

HENRY ZOLPER  
PORTLAND CEMENT WALKS  
RELIABLE WORK ONLY  
MENDOTA, ILL.

Mendota, Ill., July 14, 1900.

Chicago Portland Cement Co.,  
Stock Exchange Bldg.,  
Chicago, Ills.

Gents:-

In regard to the merits of the A.A. Chicago Portland Cement, I take great pleasure in recommending it to anyone wanting a high grade Sidewalk Cement. During the seasons of 1897, 1899 and this season so far, I have used more than one thousand barrels of A.A. in laying sidewalks, etc., and none of it has failed to give the best of results. The season of 1898 I did not use the A.A. on account of your plant burning. The color is all that could be desired. On account of the fineness of the grinding it will carry more sand than any Cement that I have ever used.

Yours truly,

*Henry Zolper.*

E. H. HARRISON  
NEW 425 WALTON ST.  
TELEPHONE 2220

FRED F. HARRISON  
217 MORGENTHAU BLDG.  
TELEPHONE 22

R. S. SAFFORD & SON  
CEMENT CONTRACTORS  
FIFTEENTH, FLORENCE, RIDGE-ALES

Chicago Portland Cement Co.,  
Chicago  
AGROHA ILLINOIS *Nov. 28* 1900

*Gentlemen*

*At the close of our season, we wish to express to you our satisfaction with the Chicago AA Cement*

*We have used several thousand sacks, in our work during the summer, and that means that we are well satisfied with it.*

*Respectfully, Yours*

*R. S. Safford & Son*

MENDOTA, ILL.

One example of many sidewalks built by the veteran, Henry Zolper.

He has used "AA"  
three years without  
a failure.



FOUNTAIN  
in Park at Elgin, Ill.

Chicago AA Cement  
used in all this work.

SPAN SIDEWALK,  
in Aurora, Ill.

By R. S. Safford & Son.



MONIER SYSTEM  
OF  
CONSTRUCTION



315 CHAMBER OF COMMERCE BLDG

COMBINED  
GRANITE-CONCRETE  
CURBS AND GUTTER

CHICAGO, February 16, 1901

Chicago Portland Cement Company,  
Stock Exchange Building,  
Chicago.

Gentlemen:

We have used your Chicago AA Portland Cement in various kinds of concrete work, both in Chicago and other cities and it has given us perfect satisfaction. It has stood all tests imposed, is excellent in strength, even in color and produces a work equal in quality and appearance to the best that can be made.

Yours very truly,

HOEFFER &amp; CO.

By *A. C. Warren*THE  
VULCAN WESTERN CO.

STREATOR, ILL.

TELEGRAPHIC ADDRESS  
"VULCAN"  
TELEPHONE NUMBER  
P. O. BOX 715



IN OUR OFFICE.

STREATOR, ILL.

July 19th, 1900.-

Chicago Portland Cement Co.-  
Chicago, Ill.-

Gentlemen:-

We take much pleasure in stating that your Chicago A. A. Portland Cement, of which we have used 10 car loads in building our plant here, has given us entire satisfaction, and we feel justified to recommend your brand to builders without hesitation.

Very truly yours,

THE VULCAN WESTERN COMPANY.

*A. C. Warren*  
Manager.

CONCRETE CONDUIT  
in Bloomington, Ill.

Laid by  
Hoeffer & Co.,  
of Chicago.



Equipment of Chicago AA Factory is perfect in every particular.



BRIDGE ABUTMENTS  
AND CENTER PIER  
Calumet River,  
Pennsylvania Railroad

CONCRETE CONDUIT  
in Bloomington, Ill.

Laid by  
Hoeffer & Co.,  
of Chicago.



Chicago AA Cement used in all of the above work.



*Illinois Central Railroad Company*  
*Office of Engineer of Bridges and Buildings*

*Chicago*, November 26, 1900.

Chicago Portland Cement Co.,  
Stock Exchange Bldg.,  
Chicago, Ill.

Gentlemen:

Answering yours of the 24th instant, the following is the result of a series of tests on your "AA" Portland Cement. The twelve months' tests were not finished until a few days ago, the last one being November 20th:--

	' Neat	1 - 1	1 - 2	1 - 3
1 day	320	219	210	102
7 "	391	407	395	306
28 "	469	446	421	359
3 months	551	525	478	428
6 "	593	553	552	452
12 "	650	665	605	503

Very truly yours,

*H. W. Parham*  
Engineer Bridges & Buildings.

Dixon, Ill., July 11th, 1900.

The Garden City Sand Co.,  
1203 Security Building ,  
Chicago, Ill.

Gentlemen:-

In reply to your inquiry concerning the result obtained of "C.A.A." Portland Cement used by me in the construction of buildings I am pleased to say that the results have been very satisfactory, and I can cheerfully recommend it to the building public.

Very truly yours,

*W. J. McAlpine*

Note increase in tensile strength in above test.



ILLINOIS CENTRAL CAR SHOPS AND ROUNDHOUSE,  
at Waterloo, Iowa.

H. W. Parkhurst, Engineer of Construction. Geo. B. Swift Company, Contractors.

Instruction on the use of Portland Cement sent free on application.



Upwards of 20,000 barrels of Chicago AA Cement used by the Illinois  
Central R. R. in 1900.

# DAVID LAWTON,

— DEALER IN —

## © © Grain, Flour and Seeds,

BUILDING MATERIAL AND AGRICULTURAL IMPLEMENTS.

Racine, Wis.

July 11, 1900.

Messrs. Garden City Sand Co.

Chicago, Ill.

Gentlemen:-

Your esteemed favor of the 5th inst., was recd, requesting the results of our experience with Chicago A A Portland Cement - It will not take long to give it. We have only one opinion and that is that it is entirely satisfactory - not a complaint - not one, but all say it works nicely under the trowel, sets in nice time, and becomes as hard as stone, and for sidewalks we have never seen its equal. I think we have some of the most beautiful and perfect walks in existence- all from this AA and hope the good quality can be kept up.

Respectfully,

*David Lawton*

"Not a complaint. Some of the most beautiful and perfect walks in existence," says David Lawton.



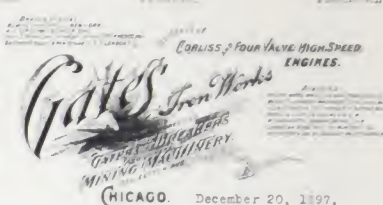
STREET IN RACINE, WIS.

Walks laid with Chicago AA Cement.  
See what David Lawton says.

CHICAGO  
AA CEMENT  
SIDEWALKS.  
Elm Street and  
Lake Shore  
Drive,  
Chicago.



Chicago AA Cement is unsurpassed for laying sidewalks.



Chicago Portland Cement Co.,  
1205 Stock Exchange Bldg., City.

Gentlemen:-

Answering your favor of December 13th in relation to your "AA" cement, would say that we have used the same on several occasions and have just used a large amount in making the foundations for the machine shop addition to our present plant. The foundations for this building, including piers and all other work, have been constructed entirely out of concrete, in proportions of one of cement, four of torpedic sand and six of broken stone, and are in every way perfectly satisfactory, in fact, we believe that we might have used twelve to one, instead of ten with perfectly safe results.

In erecting the building to which the present building is an addition, we used English portland cement in proportions of one, three and five, and the concrete in the new building seems, to all appearances, to be superior to that made with the imported brand.

We are expecting to erect another building to the plant at no very distant date, and shall use your cement in this work. In fact, we have come to the conclusion that on account of the material which it will carry that we can afford to use it in foundations and all such work as against the common hydraulic cements. We are,

Very truly yours,

G A T E S I R O N W O R K S.  
*G. Gates*  
President.

A building material of the greatest merit.

Harder and stronger than natural stone.



W. S. MACHARG, CIVIL ENGINEER,  
THE BROOKLYN

LATE ENGINEER WATER SUPPLY AND SEWERAGE,  
WORLD'S COLUMBIAN EXPOSITION,  
CONSULTING ENGINEER ON INTERCEPTING  
SEWERS, CITY OF CHICAGO.

CHICAGO, July 13, 1900.

Garden City Sand Company,  
Security Building, City.

Gentlemen:

The sample of "Chicago AA" cement submitted to me by you for test has been broken with the following results:

Briquettes, one square inch section, moulded by hand, neat and of mortar of parts of cement and sand by weight noted, kept twenty-four hours in the air and the remaining time in water, broken at the stated ages, show the tensile breaking weights in pounds per square inch noted. Fineness is the per cent passing an 100-mesh sieve.

Book No.	Fineness	Parts	% Water	7 days	28 days	3 mos.
616	95.0%	neat	16 2/3	466 415 Av 441	574 586 Av 500	
616C	95.0%	1c:3s	10.0	171 176 171 Av 173	257 271 266 Av 265	
616E	95.0%	1c:5s	7.0	101 79 96 Av 92	157 140 168 Av 155	

Initial set 1h 35m; Final set 2h 45m. Sound in cold pat.

The gain from seven days to twenty-eight days of 31% in the neat, 53% in 1c:3s, and of 68% in the 1c:5s, is noticeable and taken in connection with the moderate but ample strength at a week is indicative of a trustworthy cement.

Very truly yours

Wm S Macharg

Note Mr. MacHarg's remarks regarding this Cement, at the foot of this letter, as to its sand carrying capacity.

D. P. FAUS.  
MANUFACTURER OF  
Cement & Walks,  
CURBINGS AND FLOORS.

All Work Guaranteed First-class

Western Cemetery, and  
All kinds of Fine Cement Work.

*Waterloo, Iowa, July 6, 1900*

The Gardner City Sand Co.,  
Chicago, Ills.

Gentlemen,

Replying to your inquiry of the 5th,  
would say I have used your Chicago A A Cement in  
sidewalks and curbing on some of the principle  
streets of our City and the results have been very  
satisfactory in every instance and I believe it  
to be equal to any of the best brands of American or  
imported Portland cements and as long as you keep the  
quality of your cement up to the high standard you  
now have it I will use it exclusively.

Very truly yours,

*D. P. Faus*

Chicago AA not only stands all technical tests, but stands the  
practical tests in construction work.

Joint Track Elevation 18th Street to Ashland Avenue  
CHICAGO

**REPORT OF CEMENT TESTS**

Car No. \_\_\_\_\_ Initial \_\_\_\_\_  
 Brand of Cement Chicago At  
 Sample Number 956  
 Date of Sampling Dec 21 - 1900  
 Fineness—Percentage passing No. 100 Sieve 93.8  
 Activity { Initial Set 0 Hours 50 Minutes  
           { Final Set 1 Hours 45 Minutes  
 Soundness { Air Pat OK  
               { Water Pat OK  
               { Boiling Test OK

**Tensile Strength—Pounds per Sq. Inch.**

NEAT CEMENT				MORTAR			
% Water Used by Weight				% Water Used by Weight	Cement		Sand
	7 Days	28 Days	90 Days		7 Days	28 Days	90 Days
18	620	815		10	140	300	
	530	845			145	235	
	490	870			135	285	
	640	795			145	245	
	570	800			155	280	
AV.	570	824			144	269	

NOTE:—All Briquettes remain 24 hours in air, and the remainder of the time in water.  
 The Boiling Pats remain 12 hours in air before boiling.

For further instructions about the use of Portland Cement than given on pages 62 and 63, write Chicago Portland Cement Co. for book "How to use Portland Cement." Sent free on application.

DEALERS IN  
LUMBER  
AND ALL OTHER  
BUILDING MATERIAL

C. L. BARTLETT.

B. A. KLING

# BARTLETT & KLING, CONTRACTORS

FOR ALL KINDS OF CONSTRUCTION WORK.

HAVE LATELY CONSTRUCTED:  
Court House, Lewiston, ME.  
Austrian Building, Woonsocket, RI.  
City Hall, Carlsbad, CA.  
Mason Asylum and Poor House, Hartford, Conn.  
New Constructing High School Building, Alton, Iowa.

TELEPHONE NO. 308  
OFFICE: 19 NORTH FIFTH ST.

7/7 1900  
a. a. Portland  
7/6

The Garden City Sand Co.,  
Security Bldg. Chicago.

Gentlemen:-

We have yours of above date.

We have concluded that your Chic "A A" Cement is all right for our work and expect to order minimum car very soon. Should have ordered before this except there is a little uncertainty about the sale of the Bonds for the building and we are holding off for a few days on that account.

Resp.

*Bartlett & Kling.*



*Hannibal, Mo. Nov. 16, 1900.*

Chicago Portland Cement Co.

Chicago.

Gentlemen,

In response to yours of the 15th inst. will say that we have handled your "A.A. Chicago" Portland all this year, and although we have widely scattered it in the region here and west of us, we have not received complaint as to a single barrel of it. It has proved uniformly good, giving full satisfaction in every instance. We will add that there is no branch of our business that we are more careful about, than in the selection of Portland Cement.

Very truly,

*Hannibal Lime Co.*

PETER O'HAIR,

CEMENT PAVER,

412 H AVE.

Proper Attention Given to all kinds of  
Cement Work

Sterling, Ill., December 11 1900

Chicago Portland Cement Co  
Manufacturers of "A & Chicago"  
Portland Cement.

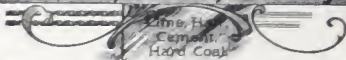
Gentlemen - With 25 years Experience I  
have used many brands of Portland Cement  
and have found your "A & Chicago" Portland  
to be fully as good as the best Imported  
Cements. I have used 1100 barrels this  
season in the construction of Cement sidewalks,  
Curbing, Coping, Cellar bottoms etc, and  
have found it to be uniform in quality  
and color. I can cheerfully recommend  
it for any kind of Cement work

Very Respectfully yours  
Peter O'Hair

Note what Peter O'Hair, "the father of cement walks in the west," says of Chicago AA Cement: "With twenty-five years experience I have used many brands of Portland and have found Chicago AA to be equal to the best Imported Portland Cement."



W. H. HUNTER & CO.  
**Lumber, Lath, Shingles,**



OFFICE 136 HENNEPIN ST

La Salle, Ill.

July 9 - 1900

Chicago Portland Cement Co

Gents

Regarding your inquiry concerning our opinion of the A A Chicago Portland Cement we are pleased to state that it has given the best of satisfaction. The most of the A A has been used in laying sidewalks so far we have had no complaint whatever. The color is very desirable. It is ground very fine which make it a very economical cement to use because it will carry a large amount of sand.

Yours Respectfully  
W. H. Hunter & Co

T. W. Ballew,

July 9<sup>th</sup> 1900.

Mound City, Mo.

Dear Sir:-

We are in receipt of your favor of the 7<sup>th</sup> inst which we have forwarded to the Garden City Sand Co. of Chicago, who will be pleased to quote you prices on A. A. Cement in car load lots delivered at Mound City. We do not handle the cement to the trade in car load lots and are only prepared to make shipments of small lots locally. Chicago A. A. is not the Atlas Cement but is equally as good for any purpose and we think superior in most places.

Trusting that they will be able to make you prices that will be satisfactory, we remain

Very truly yours,

C. S. Rex & Son.

(T.H.H.)

*C. S. Rex*

Mngr.

## Allen &amp; Campbell,

CONTRACTORS FOR

German Portland Cement Sidewalks, Curbing, Hitching Posts, Etc.

Basements a Specialty

REMARKS: B. H. EVERETT ST

Chicago Portland Cement Co.  
 Chicago, Ill., 3/1 \_\_\_\_\_ 1901

Gentlemen,

If it is not too late to grant a request, from you people some time since, I will do so, as soon as the snow leaves the ground. You asked me to have a photograph taken of some of the most prominent work we have done. Bad weather came on before things were cleared away. We have put in over 12500 square feet of walk and basement since the middle of October, with A. A. and think enough cannot be said of your product.

Very Respectfully Yours,

Allen &amp; Campbell,

Allen & Campbell have made a specialty of using IMPORTED Portland Cement in their work. Last fall we got them to try Chicago AA. They say "enough cannot be said of your product."

H. HUNTER, Henry, Ill.  
E. F. HUNTER, Chicago, Ill. W. F. STEVENS, La Salle, Ill.

— OFFICE OF —  
Hunter, Stevens & Co.,

DEALERS IN

Lumber, Lime, Coal, Cement, Sash, Doors,  
Blinds, Mouldings, Etc.

Yards

H. & E. F. HUNTER—

Henry, Ill.

Chicago, Ill.

Springfield, Ill.

Madison, Ill.

HUNTER, ALLEN & Co—

Winchester, Ill.

La Salle, Ill.

HUNTER, STEVENS & Co—

La Salle, Ill.

Chicago Portland Cement Co.  
Chicago, Ill. July 18, 1900.

Gentlemen:—  
Referring to the "AA" Cement  
made by you at this point, we say that  
we have used it on numerous jobs  
about the City, & can say that <sup>we</sup> every  
instance where it has been used it has  
given perfect satisfaction. Our trade runs  
largely to a side-walk Cement, & we find  
the "AA" equal to all the demands made  
upon a first class, high grade, sidewalk Cement.  
Its uniform finish, and carrying capacity  
color & strength, should commend it to  
careful buyers every where.

Yours very truly,  
Hunter Stevens

See what our neighbors say regarding Chicago AA.

Chicago AA is superior for exterior finish of residence.

The following tables are taken from the Sixth Annual Report of the  
Department of Public Works, City of Peoria, Illinois,  
by A. D. Thompson, City Engineer.

The following tables give a summary of the tests upon the best  
American and imported Portland cements conducted during the past  
season and can be taken as a comparison of the merits of these cements.

#### Portland Cements—American

Brand	No. Lots Tested	Fineness			Heat			1 Cement to 3 Sand
		No. 50 Sieve	No. 74 Sieve	No. 100 Sieve	24 Hours	7 Days	30 Days	7 Days
Alpha.....	16	98.3	94.7	90.0	258	785	890	193
Atlas.....	15	99.7	94.1	88.5	417	776	696	196
Saylor.....	15	100.0	99.2	94.9	364	567	718	213
Empire.....	16	99.4	96.4	90.1	329	570	664	182
Chicago AA.....	40	99.7	99.2	97.1	337	549	700	253
Average .....	.....	99.4	96.7	92.1	341	650	721	209

#### Portland Cements—Imported

Brand	No. Lots Tested	Fineness			Heat			1 Cement to 3 Sand
		No. 50 Sieve	No. 74 Sieve	No. 100 Sieve	24 Hours	7 Days	30 Days	7 Days
Dyckerhoff.....	16	99.6	94.9	86.8	207	404	517	148
Lagerdorfer.....	19	99.2	95.7	90.3	—	495	635	114
Josson.....	10	99.8	98.0	95.4	375	412	758	170
Stettin Gristow....	17	98.9	92.0	86.0	282	451	528	236
Germania.....	49	99.8	97.6	89.7	273	521	649	213
Alsen.....	64	99.0	92.1	87.1	364	463	642	239
Schifferdicker.....	11	99.0	93.2	89.6	272	446	590	175
Hilton.....	37	99.5	96.1	91.8	277	496	613	184
Average .....	.....	99.4	95.0	89.6	283	461	616	185

Notice where Chicago AA stands with a mixture of 1 part cement, 3 parts of sand.

Nov-5<sup>th</sup> 1900

LABORATORY OF CEMENT TESTS...STREET DEPARTMENT.

Soundness: *OK*

Fineness: Passing No. 50 sieve...99.9...%; do No. 100 sieve...94.7...%; do No. 200 sieve...79.1...%

Lab No.	Reepled	Samples Taken From	Brand	Setting		Nest	Age	Strength in Pounds per Square Inch						
				Initial	Final			Tensile	Average	Coment	Sand	Age	Tensile	Average
22880/3		Waggoner	Chicago	1	2	"	7 days	727		1	3	7 days	418	
		18 x Antwood						732					422	
								714					430	
								737					450	
								748	732			28 days	534	430
								800					542	
								827					482	
								784					501	
								796					492	510
								788	799					

Sample No 22421-22440+22591--22645

375 662

*H. Bailey*  
CITY CEMENT TESTER



# TEST OF "CHICAGO AA" CEMENT

SAMPLE SUBMITTED BY

TEST BY

John Eaton Shepardson  
City Engineer

GARDEN CITY SAND CO.  
CHICAGO, ILL.

JAN 25 1901

Kiwaukee Illinois

## — TEST — OF — TENSILE — STRENGTH —

### — NEAT CEMENT —

NO	AGE OF SPECIMEN	TENSILE STRENGTH	AVERAGE OF TESTS	LOCATION OF FRACTURE
1	1 day	128		At Clips
2	"	133		At Center
3	"	128	147	At Clips
4	"	170		At Center
5	"	156		At Clips
6	"	165		At Center
7	7 days	412		"
8	"	529		"
9	"	485	491	"
10	"	505		"
11	"	503		"
12	"	450		"
13	28 days	552		"
14	"	585		"
15	"	640	608	"
16	"	586		"
17	"	623		"
18	"	635		"
19	60 days	705		"
20	"	673		"
21	"	542	639	"
22	"	645		"
23	"	652		"
24	"	618		"

City water used. About 24% & 25% of weight of dry cement. Specimens completed by hand pressure.

### — MORTAR (3 PARTS CEMENT BY WEIGHT)

NO	AGE OF SPECIMEN	TENSILE STRENGTH	AVERAGE OF TESTS	LOCATION OF FRACTURE
1	1 day	38		At Clips
2	"	37		"
3	"	36	37	"
4	"	37		"
5	"	35		"
6	"	37		"
7	7 days	175		At Center
8	"	191		At Clips
9	"	164	169	"
10	"	183		"
11	"	197		"
12	"	157		"
13	28 days	230		At Center
14	"	240		At Clips
15	"	232	237	At Center
16	"	247		"
17	"	210		"
18	"	235		At Clips
19	60 days	292		"
20	"	268		At Center
21	"	270		"
22	"	266	265	"
23	"	225		"
24	"	250		"

Tested one  
specimen  
at 60 days  
for 60 days

Sharp clean mix sand City water used. About 24% of weight of dry cement. Specimens completed by hand pressure.

## — FINENESS —

TEST NO	PASSING U.S. STANDARD SIEVE
	#100 #75 #30
1	963% 988% 999%
2	975% 990% 999%
3	968% 989% 999%
AVER AGE	969% 989% 999%

## — SETTING —

TEST NO	TIME OF SET
	INITIAL PERMANENT
1	75 MINUTES 180 MINUTES
2	80 " 180 "
3	55 " 165 "
4	70 " 190 "
5	80 " 210 "
AVER AGE	72 " 185 "

## TEST FOR SOUNDNESS —

Small pots of neat cement one half inch thick covered by damp cloth. A lot set showed no evidence of expansion or contraction at end of forty days, no checks or cracks appearing on same.

COPY

## CITY OF CHICAGO

## LABORATORY OF INSPECTOR OF CEMENTS

AVERAGE RESULTS OF AMERICAN PORTLAND CEMENTS: NEAT, 3 PARTS SAND & 3 PARTS LIMESTONE SCREENINGS  
MADE IN CITY LABORATORY CHICAGO AVE PUMPING STATION

BRAND	TIME READ TO SET, MINUTES	TEMP IN SETTING	HEAT IN SETTING	TENSILE AND CRUSHING STRENGTH $\frac{1}{2}$ IN $\square$ INCH									
				NEAT					1 TO 3 PARTS SAND				
				24 HR.	7 DAYS	28 DAYS	60 DAYS	24 HR.	7 DAYS	28 DAYS	60 DAYS	24 HR.	7 DAYS
WAYLAND	89.60	78	4	8	TENSILE 1274	3049	3867	4729	352	1500	3104	348	1592
ALPHA	92.25	76	8	6	CRUSHING 1178	4447	5897	728	350	247	397	385	252
CHICAGO A	98.32	90	2	31	TENSILE 2094	5682	720	747	82	576	397	50	533
SAYLOR	93.72	75	140	41	CRUSHING 2094	5682	720	747	82	576	397	50	533
EMPIRE	86.37	63	165	75	5	7	CRUSHING 1594	4884	6644	7084	877	1553	3363
VULCANITE	93.43	81	269	72	3	71	CRUSHING 1594	4884	6644	7084	877	1553	3363
ATLAS	92.29	80	258	78	3	6	TENSILE 1505	729	864	889	72	24	218
STEEL	96.47	72	127	71	6	22	CRUSHING 1594	4884	6644	7084	877	1553	3363
BONNEVILLE STAR	91.32	68	251	76	5	8	TENSILE 1505	729	864	889	72	24	218

I HEREBY CERTIFY THAT THE ABOVE TEST IS CORRECT.

*Paul J. Kelly*  
CHIEF CEMENT TESTER  
MAR. 27. 1906

THE CHICAGO & ALTON RAILWAY COMPANY.

ENGINEERING DEPARTMENT

H. F. BALDWIN,  
CHIEF ENGINEER.

CHICAGO      February 19, 1901.

Chicago Portland Cement Co.,  
Stock Exchange Bldg., C i t y.

Gentlemen:-

The following are the results of tests made in our laboratory of a sample of Chicago AA Portland cement received from your company early in January:

FINESS.      94.3% passing No. 100 sieve.

SETTING.      Initial 2 hrs. 30 min; final 6 hrs. 45 min.

STEAM TEST. O.K.

The following are the averages in each case of ten briquettes in tensile test:

	7 days.	14 days.	28 days.
Neat,	$\frac{761}{-}$	$\frac{740}{-}$	$\frac{833}{-}$
3 to 1,	270	318	430

Yours truly,



Chief Engineer.

Look at these sand tests: "Chicago AA" Cement invariably shows great and steady increase in strength in the sand tests.

# CHICAGO, ROCK ISLAND & PACIFIC RAILWAY CO.

OFFICE OF CHIEF ENGINEER

A. C. DANCHEY  
Chief Engineer

Chicago, Ill. March 5, 1901.

Garden City Sand Co.,  
513 Stock Exchange,  
CITY.

Gentlemen:-

Below please find test of Chicago Portland Cement  
Co's. "AA".

	7 days	28 days	60 days	Fineness.	
Heat	420	641			
	513	734			
	514	721			
	517	656			
	527	525			
	531	513			
Average	415	601			
Three (3)	137	265			
	118	170			
	163	134			
sand to one	144	113			
(1) cement.	125	264			
	136				
Average	137	269			

Yours truly,

*W E Danchey*

Chief Engineer.

J2c

Note the remarkable increase in strength. "Chicago AA" can  
always be depended upon.

## REFERENCES

### RAILROAD WORK

Illinois Central R. R.  
Chicago & Eastern Illinois R. R.  
Chicago & Alton R. R.  
Pennsylvania Co.  
Belt Line.  
Wisconsin Central R. R.  
Chicago Union Traction Co.

### BRIDGES

Chicago Drainage Canal.  
Desplaines, Illinois.  
Feehanville, Illinois.  
Peru, Illinois (Culvert).  
Pennsylvania R. R., Calumet River.  
Waterloo, Iowa (Culvert).

### MOSAIC WORK

First Church of Christ Scientist.  
Morrison Hotel.  
Boston Oyster House.  
Northwestern Café.  
W. H. Heegard & Co.'s Cigar Store.



## REFERENCES

### SCHOOLS OF CHICAGO

Medill.  
Calhoun.  
Montefiore.

### BREWERIES

John L. Hoeber Brewing Co.  
Seipp's Brewing Co.  
Standard Brewery.  
Gottfried Brewing Co.  
Best Brewing Co.  
Horner's Brewery, Peru, Illinois.

### MALT HOUSES

Watkins, Fritz & Vincents.

### TESSELATED FLOORS

Art Institute Building, Chicago, Illinois.

### GOVERNMENT BUILDINGS

(Post-offices)

Elgin, Illinois.  
Monmouth, Illinois.  
Streator, Illinois.

## REFERENCES

### PACKING COMPANIES

Swift & Company, Chicago, St. Paul, and St.  
Joseph, Mo.  
International Packing and Provision Co.,  
Sioux City.  
Schwarzschild & Sulzberger Beef Co., Chicago.  
Armour & Co., Chicago.  
Nelson Morris & Co., (National Box Co.)

### LARGE BUYERS OF CEMENT

Standard Oil Co., Whiting, Ind.  
McCormick Harvester Co., Chicago.  
C. W. Hull & Co., Omaha, Neb.  
Koch & Meyer, Quincy, Ill.  
Abel Lime & Cement Co., Davenport, Iowa.  
Granitoid Paving Co., Davenport, Iowa.

### SIDEWALKS, ETC. IN

#### ILLINOIS :

Chicago.	Aurora.
Evanston.	Elmhurst.
Highland Park.	Batavia.
Kankakee.	Dixon.
Freeport.	Ottawa.
Mendota.	Quincy.
La Salle.	Elgin.

## REFERENCES

### SIDEWALKS, ETC. IN

#### ILLINOIS :

Peru.	Rockford.
Peoria.	De Kalb.
Lostant.	Hinsdale.
Buda.	Berwyn.
Streator.	Oak Park.
Havana.	Austin.
Mt. Carroll.	Wenona.
Bloomington.	Rutland.
Stirling.	Hinckley.
Springfield.	Moline.
Odel.	Walnut.
Rock Falls.	Fairbury.
Sycamore.	Chebanse.
Washington Heights.	Litchfield.
Wyoming.	

#### IOWA :

Waterloo.	Creston.
Dennison.	Sioux City.
Spencer.	Clinton.
Forest City.	Davenport.
Woodward.	Perry.
Santiago.	Webster City.
Ames.	Allerton.
Remsen.	Keokuk.
Cedar Falls.	Des Moines.

## REFERENCES

### SIDEWALKS, ETC. IN

#### MISSISSIPPI :

Aberdeen.	Amory.
Jackson.	

#### LOUISIANA :

New Orleans.

#### WISCONSIN :

Racine.	Madison.
Milwaukee.	Baraboo.
Monroe.	Prairie Du Sac.
Richland Center.	

#### MINNESOTA :

Minneapolis.	Lyle.
St. Paul.	

#### MISSOURI :

Kansas City.	St. Louis.
Hannibal.	

### CURB AND GUTTERS

Chicago.	Kankakee.
Austin.	Mt. Carrol.
Kenosha.	Madison.
Baraboo.	

# INSTRUCTIONS FOR USING PORTLAND CEMENT

## Character of Materials to be Used with Cement

Sand should be *clean, coarse and sharp*. A *loamy* sand should be avoided; it will give bad results and retard the set. Gravel or crushed stone should be *clean*, and vary from one-quarter to two inches in size. Care must be taken if work is being done during winter months. The material must be kept from freezing, and during such times warm instead of cold water is preferable for mixing concrete.

## Mixing

Mix cement and sand well together until it shows a uniform color, then add the required quantity of stone, and mix well together by shoveling over three or four times. Add only sufficient water to bind the materials together, so that when handled by a shovel it will not crumble or fall off. Too much water weakens concrete. Where large quantities of concrete are required, concrete mixers are preferable to hand mixing, both for better and quicker mixing and a saving in cost.

## Proportions for Concrete Work

Varying proportions of sand and stone can be mixed with one part of cement and give good results, but for all ordinary purposes, such as foundations of sidewalks, mill or machinery foundations, house foundations, retaining walls, cisterns and reservoirs, etc., one part of cement, two parts of sand, and five parts of broken stone, or one part of cement, three parts of sand, and seven parts of broken stone, will give excellent results. If absolutely watertight work is required, an excess of water is found to be preferable, as in setting the voids will be more easily filled. *Never mix large quantities*, but only as much as can be put in place within fifteen or twenty minutes after mixing.

## Laying Work

See that the mixture is rammed well into place with a tamping-iron, or heavy wooden rammer; lay quickly, so that the layers adhere to each other, and in cold weather, to avoid freezing, use one pound of salt to fifteen or eighteen gallons of water. In hot weather, after concrete has set (say twelve hours), wet frequently with water, especially on sidewalk work.



## Directions for Laying Pavements

Depth of excavation depends greatly on soil; if walks are bounded on each side by soil, fifteen to eighteen inches should be excavated and filled up to within four inches of level with good ashes, clinker gravel or stone, sprinkled and rammed well; this is necessary to prevent frost getting under pavement. Stakes and strips (2" x 4") should be set on the outside to keep the walk straight; then fill to within one-half inch of top of strips with concrete mixed proportionately as stated in "Proportions for Concrete Work;" ram well, as previously directed; before the sub-surface is hard set, fill the remaining one-half inch with top surface, which is generally composed of one part of cement to one or two of good sand or coarsely ground marble dust or limestone, or trap rock screened to from one-sixteenth to one-eighth inch in size. Obtain an even surface by working the top dressing backward and forward with the edge of a level board, which should rest on the strips on each side of the walk; when it is worked sufficiently to fill all pores, trowel even surface. Too much troweling is objectionable. Blocks should be laid in four or five foot squares; lay every other block, returning to lay intervening blocks when the first ones are sufficiently set to allow of strips being removed. Waterproof paper should be laid between joints to prevent the sections adhering to each other. Never use pure cement for dusting, but use equal parts of cement and sand. Dusting should be avoided and only done in cases where it is found too much water has been added to the mixture. Protect the surface against hot rays of sun and against currents of air.

Walks laid according to the above rule will require seven to eight pounds of cement to the square foot. Curbs and gutters should be made in one that they may bind together, and should be made in lengths of four or five feet each; the facing or curbing should be finished with a coating of one part of cement to one of sand, carefully worked and troweled as soon as the boards can be removed to admit of same; the edges should be beveled off.

## Cellar Floors

Cellar floors should be from three to four inches in thickness, concrete to vary in strength in proportion to the use the cellar is to be put to. For ordinary purposes a concrete mixture of one part cement, five parts sand, and ten parts stone will be sufficient. Top surface to be made same as sidewalks. One barrel of cement will lay about seventy-five feet of good cellar flooring.

## Mortar

For masonry and brickwork use one part of cement to five or six parts of clean, sharp sand, adding about one-half part of fresh-slacked lime; to give the mortar a plastic nature, add more lime if necessary. One barrel of Portland Cement should be sufficient to make enough mortar to lay up two thousand (2,000) bricks with quarter-inch joints.

For further instructions for using Portland Cement write to Chicago Portland Cement Company for book, "How to Use Portland Cement," sent free on application.

